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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/810,352	03/16/2001	Graeme N. McClure	ABMS-0116/B000300	9203		
7	590 05/12/2003					
Jonathan M. Waldman			EXAMINER			
Woodcock Was Mackiewicz &	Norris LLP	DOUGHERTY, ANTHONY T				
Philadelphia, P	ace - 46th Floor A 19103	ART UNIT	PAPER NUMBER			
, r			2862			

Please find below and/or attached an Office communication concerning this application or proceeding.

*					lh	
, ,		Application No.		Applicant(s)		
Office Action Summary		09/810,352		MCCLURE ET AL.		
		Examiner		Art Unit		
		Anthony T. Doug		2863		
The MAILING DATE of this con Period for Reply	mmunication ap _l	pears on the cover	sheet with the c	orrespondence add	iress	
A SHORTENED STATUTORY PERI THE MAILING DATE OF THIS COM - Extensions of time may be available under the pr after SIX (6) MONTHS from the mailing date of th - If the period for reply specified above is less than - If NO period for reply specified above, the max - Failure to reply within the set or extended period - Any reply received by the Office later than three rearned patent term adjustment. See 37 CFR 1.70 Status	MUNICATION. ovisions of 37 CFR 1.1 is communication. thirty (30) days, a repimum statutory period for reply will, by statute nonths after the mailin	136(a). In no event, howe by within the statutory min will apply and will expire a by cause the application to	ever, may a reply be tin imum of thirty (30) day SIX (6) MONTHS from b become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).	mmunication.	
1)⊠ Responsive to communication	n(s) filed on <u>14</u>	<u>May 2001</u> .				
2a) ☐ This action is FINAL .		nis action is non-fi	nal.			
Disposition of Claims						
4)⊠ Claim(s) <u>1-13</u> is/are pending i	n the application	า.				
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-13</u> is/are rejected.						
7) Claim(s) is/are objected	i to.					
8) Claim(s) are subject to restriction and/or election requirement. Application Papers						
9) The specification is objected to	by the Examine	er.				
10)⊠ The drawing(s) filed on <u>16 Mar</u> d	<u>ch 2001</u> is/are:	a)⊠ accepted or b)	objected to by	the Examiner.		
Applicant may not request that a	any objection to th	e drawing(s) be hel	ld in abeyance. S	ee 37 CFR 1.85(a).		
11) The proposed drawing correction	on filed on	_ is: a)∏ approve	ed b) disappro	oved by the Examine	er.	
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 12						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
 Certified copies of the priority documents have been received. 						
2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14) Acknowledgment is made of a c	claim for domest	tic priority under 3	5 U.S.C. § 119(e) (to a provisional	application).	
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)			•			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Re 3) Information Disclosure Statement(s) (PTO-		4)		y (PTO-413) Paper No(Patent Application (PT0		
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office A	action Summary		Part of Paper No. 6		

Art Unit: 2863

DETAILED ACTION

Double Patenting

1. Claim 2 provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of claim 1 of copending Application No. 09/810,810. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

09/810,352	09/810,810		
1. A method for controlling a recloser for a three-phase electrical power line, comprising:	A method for controlling a recloser for a three-phase electrical power line, comprising:		
monitoring the three phases of the power line; determining which of the three phases have an associated fault; and opening the phases on the power line that have the associated fault.	monitoring the three phases of the power line; determining a number of faults in the three phases; and opening a number of the phases on the power line responsive to the determined number of faults,		
2. The method according to claim 1, wherein the fault occurs when a protection element on the recloser enters pickup.	wherein the fault occurs when a protection element on the recloser enters pickup.		

With regard to the difference in the claim language between claim 1 of application 09/810,810, and claim 2 of application 09/810352, though the wording is different both claims have the same scope in that they open phases on a power line based on a number of faults – neither claim limits how many phases may be opened or left closed and therefore the broad scope of these two claims is coincident.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Art Unit: 2863

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1, 3, 4, and 6, 7, and 6-13 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,768,079 to Buell.

With regard to claims 1 and 10, Buell discloses monitoring three phases of a power line (see column 3 line 47 through line 67), determining a number of faults in the three phases (see column 5 line 15 through line 34) and opening a number of phases on a power line based on the determined number of faults (see column 5 line 35 through line 47).

With regard to claims 3 and 11 and applying the rejection of claims 1 and 10 (respectively) above, Buell discloses comparing a line current of each of the three phases to a predetermined current (see column 4 line 64 through line 67 and column 5 line 35 through 39) if this current exceeds the predetermined current then a fault has occurred (see column 5 line 42 through line 46).

With regard to claims 4 and 12 and applying the rejection of claims 1 and 10 (respectively) above, Buell discloses detecting a fault in one of three phases (see column 5 line 15 through line 19), starting a countdown timer associated with each faulted phase (see column 5 line 19 through line 21), and determining the number of faults still present after the timer has expired (see column 5 line 21 through line 34).

With regard to claims 6 and 13 and applying the rejection of claims 1 and 10 (respectively) above, Buell discloses opening phases on the power line that have the associated fault by opening only one phase if only one fault is determined, the only one phase bing associated with the fault, opening only two phases if only two faults are determined, the only two

Art Unit: 2863

phases being associated with the two faults, and opening all three phases if three faults are determined (see column 9 line 17 through line 32).

With regard to claim 7, Buell discloses a recloser control system for a power line with a recloser with three poles each pole associated with one of the three phases (see column 3 line 47 through line 67), the recloser capable of opening or closing the associated phase of the power line, (see column 5 line 35 through line 47), comparing a line current of each of the three phases to a predetermined current (see column 4 line 64 through line 67 and column 5 line 35 through 39) if this current exceeds the predetermined current then a fault has occurred (see column 5 line 42 through line 46), and opening phases on the power line that have the associated fault by opening only one phase if only one fault is determined, the only one phase being associated with the fault, opening only two phases if only two faults are determined, the only two phases being associated with the two faults, and opening all three phases if three faults are determined (see column 9 line 17 through line 32).

With regard to claims 8, and applying the rejection of claim 7 above, Buell discloses comparing a line current of each of the three phases to a predetermined current (see column 4 line 64 through line 67 and column 5 line 35 through 39) if this current exceeds the predetermined current then a fault has occurred (see column 5 line 42 through line 46).

With regard to claim 9 and applying the rejection of claim 7 above, Buell discloses detecting a fault in one of three phases (see column 5 line 15 through line 19), starting a countdown timer associated with each faulted phase (see column 5 line 19 through line 21), and determining the number of faults still present after the timer has expired (see column 5 line 21 through line 34).

Art Unit: 2863

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 2 and 5 rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 5,768,079 to Buell in view of U.S. Patent No. 3,558,985 to Krolski et al.

With regard to claims 2 and 5, the primary reference to Buell discloses monitoring three phases of a power line (see column 3 line 47 through line 67), determining a number of faults in the three phases (see column 5 line 15 through line 34) and opening a number of phases on a power line based on the determined number of faults (see column 5 line 35 through line 47). However, Buell fails to disclose a fault occurs when a protection element on the recloser enters pickup.

The secondary reference to Krolski et al. discloses a fault occurs when a predetermined overcurrent is sensed in one or more of the phases by an overcurrent sensing portion (i.e. a protection element enters pickup – see column 3 line 24 through line 30 and Figure 1 items 6, 6', and 6'').

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specified the fault occurrence condition of Krolski et al. be utilized to indicate a fault in the present application.

Art Unit: 2863

Accordingly, such a modification would have been obvious since Krolski et al. indicates that a protection element entering pickup (which is understood by the examiner to be the same as an overcurrent condition based on what is commonly known in the art) was a well known and valid means for determining a fault condition, furthermore an overcurrent condition can cause damage to the power distribution system and to end user appliances connected to the power system suggesting that an overcurrent condition is contrary to the desired operation of the power system and thus indicative of a fault (see Krolski et al. column 1 line 10; Buell column 1 line 1 through line 2 and column 1 line 18 through line 64), thereby suggesting the obviousness of the modification.

Conclusion

- 6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- U.S. Patent No. 4,912,591 to LeCourt because it teaches a recloser control with timers and counters before opening a phase.
- U.S. Patent No. 2,539,416 to Goldsborough et al. because it teaches a recloser for a three phase system that uses current level determination to trip either a single phase if one phase is in fault or all three phases if more than one phase is in fault (see column 6 line 38 through line 51).
- U.S. Patent No. 2,320,861 to Goldsborough et al. becaue it teaches opening one phase if only one fault is determined and opening all three phases if more than one fault is determined (see page 5, right hand column line 46 through line 72).

Art Unit: 2863

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anthony T. Dougherty whose telephone number is (703) 305-4020. The examiner can normally be reached on Monday through Friday from 8 to 5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Barlow can be reached on (703) 308-3126. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 305-3431 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

atd

May 5, 2003

John Barlow

upervisory Patent Examiner
Technology Center 2800